

AMENDMENTS TO THE CLAIMS:

Complete Listing of Claims

Claims 1-6. (canceled)

Claim 7. (currently amended) A noise reduction circuit for an RF front end system comprising:

- a. a controller circuit
 - b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;
 - c. an RF tuner; and
 - d. a programmable digital filter that receives a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;
 - e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and
- ~~The circuit of claim 3~~ wherein the program settings ~~setting~~ for the programmable filter are determined by characterizing the noise of the circuit in operation for each RF band.

Claim 8. (currently amended) A noise reduction circuit for an RF front end system comprising:

- a. a controller circuit
- b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;
- c. an RF tuner; and
- d. a programmable digital filter that receives a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;
- e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and ~~The circuit of claim 3 wherein the program~~ settings ~~setting~~ for the programmable filter are determined by characterizing the noise of the circuit in operation for each RF band and RF channel.

Claims 9-11. (canceled)

12. (currently amended) A noise reduction circuit for an RF front end system comprising:

a. a controller circuit

b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;

c. an RF tuner; and

d. a programmable switched capacitor filter that receives a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;

e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and ~~The circuit of claim 9 wherein the program~~ settings ~~setting~~ for the programmable filter are determined by characterizing the noise of the circuit in operation for each RF band.

Claim 13. (canceled)

Claim 14. (currently amended) A noise reduction circuit for an RF front end system comprising:

a. a controller circuit

b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;

c. an RF tuner; and

d. a programmable switched capacitor filter that receives a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;

e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and ~~The circuit of claim 9 wherein the program~~ settings ~~setting~~ for the programmable filter are determined by characterizing the noise of the circuit in operation for each RF band and RF channel.

Claims 15-18. (canceled)

Claim 19. (currently amended) A noise reduction circuit for an RF front end system comprising:

a. a controller circuit

b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;

c. a RF tuner; and

d. a programmable filter incorporated in a DSP that receives a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;

e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and ~~The circuit of claim 15 wherein the program~~ settings ~~setting~~ for the programmable filter are determined by characterizing the noise of the circuit in operation for each RF band.

20. (currently amended) A noise reduction circuit for an RF front end system comprising:

a. a controller circuit

b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;

c. a RF tuner; and

d. a programmable filter incorporated in a DSP that receives a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;

e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and ~~The circuit of claim 15 wherein the program~~ settings ~~setting~~ for the programmable filter are determined by characterizing the noise of the circuit in operation for each RF band and RF channel.